

SARAH DICKERSON

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EDUCATION

The University of Texas at Austin	Bachelor of Science, Electrical and Computer Engineering Minor: Business Fundamentals Overall GPA: 3.7	May 2024
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RELEVANT EXPERIENCE

Work Experience

Silicon Labs <i>Software Engineering Intern</i> ; Austin, TX	Jun 2023 - Aug 2023
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- Boosted code coverage on 4 C++ projects from 21.5% to 81.5% by developing and expanding unit tests, significantly enhancing overall code quality and unit test effectiveness.
- Resolved bug and feature tickets for Java code, driving continuous improvement and maintenance of internal company software.

Aristocrat <i>Software Engineering Intern</i> ; Austin, TX	Sep 2022 - Apr 2023
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- Developed an Angular Proof of Concept loyalty app, facilitating seamless NFC communication from mobile wallet passes to electronic gambling machines, elevating user experience and connectivity.
- Demonstrated the app's capabilities with sample wallet passes, showcasing its potential to executives.
- Automated the generation of wallet passes using Python scripts, enabling integration into the loyalty app.

Poly (Acquired by HP in November 2022) <i>Video Software Engineering Intern</i> ; Austin, TX	Jun 2022 - Aug 2022
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- Designed a Windows streaming application to optimize internal development and debugging processes for a newer IP video connection video mode, accelerating the implementation of this new feature.

Academic Experience

Texas Rocket Engineering Lab <i>Software Engineer</i> ; Austin, TX	Feb 2021 - Present
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- Enhanced monitoring of various rocket subsystems by developing fault handling mechanisms for the dashboard application using Python, Node.js, and MQTT to streamline fault detection and response.

The University of Texas at Austin <i>Undergraduate Teaching Assistant</i> ; Austin, TX	Jan 2022 - Apr 2023
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- Facilitated weekly recitation sessions for 15-20 students on C/C++ topics, data structures, algorithms, and more, resulting in heightened comprehension and academic success within my section.

RELEVANT PROJECTS

Calendar Fusion NextJS, React, Prisma, MongoDB	Jun 2023 - Present
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- Developing a dynamic web app that aggregates multiple live calendars into a unified, shareable interface.
- Implementing a robust group calendar system that seamlessly integrates individual group members' calendars, resulting in streamlined collaborative planning and efficient event scheduling.

Hardware-as-a-Service (HaaS) Website React, Python, Flask, MongoDB, Heroku	Feb 2023 - Apr 2023
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- Orchestrated a successful collaborative project with 3 peers to create a user centric HaaS website.
- Designed robust database models and developed efficient API endpoints for smooth data interaction.
- Integrated front-end user interfaces with backend APIs, ensuring interactive user experiences.

LEADERSHIP EXPERIENCE AND ACTIVITIES

Women in Engineering, <i>Peer Assistance Leader</i>	Apr 2021 - Present
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- Empowered 3 mentees to overcome academic, career, and social challenges, fostering their personal and professional growth in engineering.

PROGRAMMING LANGUAGES AND SKILLS

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| <ul style="list-style-type: none">• Java, C/C++, Python, JavaScript• NextJS, Flutter, React, Angular | <ul style="list-style-type: none">• Flask, MongoDB, Firebase• HTML/CSS, Git, Linux |
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